	Application No.	Applicant(s)
Notice of Allowability	10/049,615	YOSHIDA ET AL.
	Examiner	Art Unit
	Matthaw I Sana	1722
	Matthew J. Song	1722
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>8/25/2005</u> .		
2. The allowed claim(s) is/are <u>1-4</u> .		
 3.		
2. Certified copies of the priority documents have been received in Application No		
3. \(\sum \) Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)	·	•
1. Notice of References Cited (PTO-892)	5. Notice of Informal P	atent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary	
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No./Mail Dat 8), 7. ☐ Examiner's Amendr	
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. Examiner's Statement	ent of Reasons for Allowance
. Siological material	9. Other	•
	·	



DETAILED ACTION

Response to Arguments

1. Applicant's arguments, see page 9-10 of the remarks, filed 8/25/2005, with respect to the double patenting rejection have been fully considered and are persuasive. The rejection of claims 1-4 has been withdrawn. The newly amended claims recite an Mn doping of 5.2 to 99 mol% manganese. The prior art does not teach or suggest this newly added feature.

Allowable Subject Matter

- 2. Claims 1-4 are allowed.
- 3. The following is an examiner's statement of reasons for allowance: The closest prior art is Schetzina (US 5,679,965), White (US 6,291,085) and Fujimura et al ("Exotic doping for ZnO thin films: possibility of monolithic optical integrated circuit"). Schetzina, White and Fujimura teach doping a single zinc oxide with a p-type dopant and manganese. Fujimura et al teaches Mn can be dissolved in a ZnO matrix for doping below 1 at%. The combination of Schetzina, White and Fujimura does not teach or suggest a single crystal p-type zinc oxide with manganese (Mn) having a ferro magnetic-transition critical temperature of 150 K or more, which only only for Mn concentrations of greater than 5.2 mol% Mn, note page 8 of the instant specification.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

Application/Control Number: 10/049,615 Page 3

Art Unit: 1722

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

4. Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Matthew J. Song whose telephone number is 571-272-1468. The examiner

can normally be reached on M-F 9:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Duane Smith can be reached on 571-272-1166. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Matthew J Song

Examiner

Art Unit 1722

MJS

November 14, 2005

ROBERT KUNEMUND PRIMARY EXAMINER